# (19) World Intellectual Property Organization

International Bureau



### I IDOTA BRITADI II DICINE ILDI BRITA BRITA BRITA ILI ILI ILI BRITA BIBBE ILIBI ILIBI RUBI BRITA ILIBI ILIBI ILI

(43) International Publication Date 12 May 2005 (12.05.2005)

**PCT** 

## (10) International Publication Number WO 2005/043125 A2

(51) International Patent Classification7:

**G01N** 

(21) International Application Number:

PCT/US2004/036577

(22) International Filing Date:

2 November 2004 (02.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/517,047

3 November 2003 (03.11.2003) US

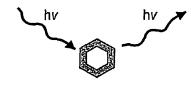
- (71) Applicant (for all designated States except US): INTE-GRIGEN, INC. [US/US]; 42 Digital Drive, Unit 6, Notato, California 94949 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SMIDER, Vaughn V. [US/US]; 3517 McSherry Way, Alameda, California 94502 (US). HERIOT, William [US/US]; 364 Sunset Parkway, Novato, California 94949 (US).

- (74) Agents: WEBER, Kenneth, A. et al.; Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th Floor, San Francisco, California 94111 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,

[Continued on next page]

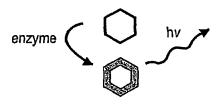
(54) Title: A NON-FLUORESCENT, NON-ENZYMATIC, CHEMILUMINESCENT AQUEOUS ASSAY

#### **FLUORESCENCE**



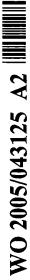
(57) Abstract: This invention provides for nonfluorescent, nonenzymatic, chemiluminescent aqueous assays in which the binding of two ligands is determined by a water soluble label system that emits light upon contact with a chemical energy transferring composition.

#### STANDARD CHEMILUMINESCENCE



#### UNIVERSAL CHEMILUMINESCENCE





### WO 2005/043125 A2



SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

#### Published:

 without international search report and to be republished upon receipt of that report For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.